

5(0)

SOV/63-4-2-20/39

AUTHOR: Lastovskiy, R.P., Professor

TITLE: International Symposium on Microchemical Analysis

PERIODICAL: Khimicheskaya nauka i promyshlennost', 1959, Vol 4, Nr 2,  
pp 263-264 (USSR)

ABSTRACT: In August 1958 a Symposium on microchemical analysis took place in England. It was convened by the Midland Section and the group of microchemistry in the Society of Analytical Chemistry in the International Union of Theoretical and Applied Chemistry. It was attended by about 400 scientists from 25 countries. The USSR was represented by the Corresponding Member of the AS USSR I.P. Alimarin and Professors A.S. Zhukovitskiy, S.P. Motornyy, R.P. Lastovskiy.

Card 1/1

S/075/60/015/004/009/030/XX  
B020/B064

AUTHORS: Lastovskiy, R. P., Kolpakova, I. D., and Dyatlova, N. M.

TITLE: New Complexons. Information 4. Synthesis and Study of the Complexons of the Triazine Series

PERIODICAL: Zhurnal analiticheskoy khimii, 1960, Vol. 15, No. 4,  
pp. 419 - 423

TEXT: Continuing their study of the synthesis of new complexons (Refs. 1-3), the authors investigate here the effect of nitrogen in the triazine cycle upon its capability of forming complex compounds. The introduction of atoms capable of coordinating with metals into the complexon molecule increases its capability of forming complexes and, in many cases, increases the selectivity of complexons for several metal cations. It was of interest to study the effect of heteroatoms in cyclic compounds. For this purpose, the following complexons containing a 1,3,5-triazine cycle were prepared: 2-oxy-4,6-diamino-1,3,5-triazine-N,N,N',N'-tetraacetic acid (I) and 2,4,6-triamino-1,3,5-triazine-N,N,N',N'',N''-hexaacetic acid (II) by condensing cyanur chloride with

Card 1/3

New Complexons. Information 4. Synthesis and S/075/60/015/004/009/030/XX  
Study of the Complexons of the Triazine Series B020/B064

imino diacetic acid. The complex-forming properties of the new compounds were polarographically studied by shifting the half-wave potential and determining the instability constants of the complexes of a number of cations. Table 1 indicates that the synthesized complexons form a number of compounds with metal ions, among which the following are of special interest: At pH 2.5, I reacts with  $Pb^{2+}$ ,  $Cu^{2+}$ ,  $Bi^{3+}$ ,  $Cd^{2+}$ ,  $Ni^{2+}$ ,  $Mo^{VI}$ , and  $Ti^{IV}$ ; at pH 4.4, apart from these ions, with  $As^{III}$  and  $Mn^{2+}$ ; at pH 9.35 with  $Pb^{2+}$ ,  $Cu^{2+}$ ,  $Cd^{2+}$ ,  $As^{III}$ ,  $Co^{2+}$ , and  $Mo^{VI}$ ; and at pH 12 with  $Cu^{2+}$ ,  $Cd^{2+}$ ,  $Zn^{2+}$ ,  $Ni^{2+}$ , and  $Bi^{3+}$ . At pH 4.4, II reacts with  $Pb^{2+}$ ,  $Cu^{2+}$ ,  $Mn^{2+}$ ,  $Mo^{VI}$ , and  $Ti^{IV}$ ; at pH 2.5, apart from these ions, with  $La^{III}$ ,  $Tl^+$ , and  $Zn^{2+}$ ; at pH 9.3 with  $Pb^{2+}$ ,  $Cu^{2+}$ ,  $As^{III}$ ,  $Mn^{2+}$ ,  $Mo^{VI}$ , and  $La^{III}$ ; and at pH 12 with  $Cu^{2+}$ ,  $Cd^{2+}$ ,  $Ni^{2+}$ , and  $Mo^{VI}$ . To determine the influence of nitrogen atoms in the hetero-cycle upon the stability of the complexes being formed, the properties of compounds I and II were compared with one another and with m-phenylene diamine-N,N,N',N'-tetraacetic acid, which were synthesized and

Card 2/3

New Complexons. Information 4. Synthesis and S/075/60/015/004/009/030/XX  
Study of the Complexons of the Triazine Series B020/B064

polarographically examined for the purpose. The instability constants of some complexes formed by the complexons examined with several metals were determined polarographically (Table 2). The half-wave potential shifts of the ion complexes with I and II are in all cases greater than with III, while the tendency toward forming stable complexes with I is greater than with II. I and II are characterized by the presence of the same group capable of forming complexes with metal cations, i.e.,  $(\text{HOOC}-\text{CH}_2)_2\text{N} - \underset{\parallel}{\text{C}} - \underset{|}{\text{N}} = \underset{|}{\text{C}} - \underset{|}{\text{N}}(\text{CH}_2\text{COOH})_2$ . The increased capability of II of forming complexes may be ascribed to the presence of a symmetrical molecule (three iminodiacetic acid groups). Finally, the synthesis of I and II is described in detail. There are 2 tables and 6 references: 4 Soviet, 1 Swiss, and 1 German.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov, Moskva (All-Union Scientific Research Institute for Chemical Reagents, Moscow)

SUBMITTED: April 14, 1959

Card 3/3

S/078/61/006/005/001/015  
B121/B208

AUTHORS: Kargin, V. A., Lastovskiy, R. P., Matveyeva, T. A.,  
Ryabchikov, D. I., Zarinskiy, V. A., and Farafonov, M. M.

TITLE: Purification of titanium dioxide and meta-titanic acid by the  
method of high-voltage electrodialysis

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 5, 1961, 1017 - 1019

TEXT: A method of purifying titanium dioxide and meta-titanic acid by  
high-voltage electrodialysis was devised. The laboratory set-up consists  
of a d-c source (capacity 5 - 5,7 KW), an electrodialyzer with five  
chambers of organic glass and control equipments for measuring amperage  
and voltage. The electrode spacing is 10 - 12 cm. The titanium dioxide  
to be purified is put into the central chamber of the electrodialyzer in  
the form of a suspension. Purification from the impurities Mg, Fe, Al,  
Ca, Sb, Pb, Sn, Cd, Bi, and Cu is carried out in an ionic current of  $\text{Cl}^-$   
and  $\text{NO}_3^-$  at maximum electrode potential. To remove  $\text{SiO}_2$  from titanium di-  
oxide, a dilute KOH solution is added in the anode chamber of the dialyzer,

Card 1/3

S/078/61/006/005/001/015

B121/B208

Purification of titanium ...

which reduces the  $\text{SiO}_2$  content from 0,3 to 0,03 %. Traces of Hf, Nb, and Ta are separated from  $\text{TiO}_2$  by conversion to oxalate complexes. Purification was examined by means of the quartz spectrographs of the MCT-22 (ISP-22) or MCT-28 (ISP-28)-type. The spectrographic method for the determination of Nb, Ta, Hf, and Cr is precisely described. Titanium dioxide purified by high-voltage electrodialysis, and meta-titanic acid have the following contents of impurities: Zr, Hf, Nb, Ta less than  $1 \cdot 10^{-2} \%$ , Mg -  $5 \cdot 10^{-4} \%$ , Si -  $1 \cdot 10^{-3} \%$ , Fe - less than  $1 \cdot 10^{-4} \%$ , Al -  $3 \cdot 10^{-3} \%$ , Ca - less than  $1 \cdot 10^{-4} \%$ , Sb - less than  $1 \cdot 10^{-4} \%$ , P - less than  $1 \cdot 10^{-3} \%$ , Cu - less than  $1 \cdot 10^{-4} \%$ , Sn - less than  $1 \cdot 10^{-4} \%$ , Cd - less than  $1 \cdot 10^{-4} \%$ , Pb - less than  $1 \cdot 10^{-4} \%$ . There are 4 tables and 6 references: 5 Soviet-bloc and 1 non-Soviet-bloc.

Card 2/3

Purification of titanium ...

S/078/61/006/005/001/015  
B121/B208

ASSOCIATION: Institut chistykh khimicheskikh reaktivov  
(Institute of Pure Chemical Reagents)  
Institut geokhimii i analiticheskoy khimii im. V. I.  
Vernadskogo Akademii nauk SSSR  
(Institute of Geochemistry and Analytical Chemistry imeni  
V. I. Vernadskiy of the Academy of Sciences USSR)

SUBMITTED: March 17, 1960

Card 3/3

BOZHEVOL'NOV, Ye.A., kand.khimicheskikh nauk; LASTOVSKIY, R.P.,  
doktor khimicheskikh nauk, prof.

Congress on Analytical Chemistry. Zav.lab. 27 no.9:1173-1174  
'61. (MIRA 14:9)  
(Chemistry; Analytical--Congresses)

LASTOVSKIY, R.P.

"Physicochemical investigation of new complexans and their analytic applications."

Report to be submitted for the Intl Feigl Anniversary Symposium on  
Analytic Chemistry  
Edgaston, Birmingham, Great Britain      9-13 Apr 1962

LASTOVSKIY, R.P.; MIKHAYLOV, G.I.; NOVIKOVSKAYA, N.A.; PETROV,  
D.A.; DANSKER, V.L.; MOREVA, Ye.V.; MALKIEL', G.E.,  
red.; PIROZHKOVA, A.I., tekhn. red.

[Urea for intravenous injection] Mochevina dlia vnutri-  
vennogo vvedeniia. Moskva, Vses. nauchno-issl. in-t khim.  
reaktivov i osobo chistykh khimicheskikh veshchestv, 1962.  
(MIRA 16:7)

10 p.  
1. Russia (1923- U.S.S.R.) Sovet Ministrov. Gosudarstvennyy  
komitet po khimii.

(UREA--THERAPEUTIC USE)

GLOBUS, R.L.; LASTOVSKIY, R.P.; ROZINA, D.Sh.; GENERALOVA, T.N.

Aminoguanidine bicarbonate (guanidine hydrazine). Metod.poluch.  
khim.reak.i prepar. no.4/5:11-14 '62. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osob chistykh khimicheskikh veshchestv.

TEMKINA, V.Ya.; LASTOVSKIY, R.P.; BRUDZ', V.G.

Hexamethylenediamine acetate. Metod.poluch.khim.reak.i prepar.  
no.4/5:32-33 '62. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobo chistiykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; SIDORENKO, V.V.

Lumocupferron. Met. poluch. khim. reak. i prepar. no.6;  
42-44 '62.  
(MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobo chistykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; TEMKINA, V.Ya.; SELIVERSTOVA, I.A.

Bisthiogalicylidene-ethylenediamine. Met. poluch. khim.  
reak. i prepar. no.6:44-46 '62. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobu chistykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; TEMKINA, V.Ya.; FADEYEVA, I.P.

Iminodiacetic acid. Met. poluch. khim. reak. i prepar.  
no.6:59-60 '62. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobo chistykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; KOLPAKOVA, I.D.; IVANOVA, N.I.

Cyclohexylamine-N,N-diacetic acid. Met. poluch. khim.  
reak. i prepar. no.6:60-62 '62.

Benzylamine-N,N-acetoacetic acid. Ibid.:62-63

(MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobo chistykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; KOLPAKOVA, I.D.; MIRONOVA, Ye.I.

Benzhydrylamine-N,N-diacetic acid. Met. poluch. khim.  
reak. i prepar. no.6:63-65 '62. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osob chistykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; KOLPAKOVA, I.D.; KOZHELENKO, L.I.

Aniline-N-N-diacetic-o-arsonic acid. Met. poluch. khim.  
reak. i prepar. no.6:65-67 '62. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobo chistykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; TEMKINA, V.Ya.; SAMYLOVA, I.M.

o-Hydroxyphenyliminodiacetic acid. Met. poluch. khim.  
reak. i prepar. no.6:67-68 '62.

p-Hydroxyphenyliminodiacetic acid. Ibid. 68-70

(MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobo chistiykh khimicheskikh veshchestv.

IASTOVSKIY, R.P.; TEMKINA, V.Ya.; MIRONOVA, Ye.I.

3-Hydroxy-4-carboxyphenyliminodiacetic acid. Met. poluch.  
khim. reak. i prepar. no.6:70-71 '62. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobu chistykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; KOLPAKOVA, I.D.; IVANOVA, N.I.

m-Phenylenediamine-N,N,N',N'-trtraacetic acid. Met.  
poluch. khim. reak. i prepar. no. 6:72-73 '62. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobu chistykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; KOLPAKOVA, I.D.

a,a'a"-Triaminedibenzylidiphenylmethane-N,N,N', N",N"-hexaacetic acid. Met. poluch. khim. reak. i prepar.  
no.6:73-74 '62. (MIRA 17:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobo chistykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; SIDORENKO, V.V.

Disodium salt of 2-naphthol-1-[N-dicarboxymethyl]-aminomethyl]-3,6-disulfonic acid. Met. poluch. khim. reak. i prepar. no.6:75-76 '62.

3,5,7,3',4'-Pentahydroxy-6,8-bis-[N,N'-di-(carboxymethyl)-aminomethyl]-flavone. Ibid.:76-78.

2,6,7-Trihydroxy-9-(2'-hydroxyphenyl)-3-fluorone-5,3'-bismethylinodiacetic acid. Ibid.:78-79 (MIRA 17:5)

1. Vsescouznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov i osobo chistiykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; TEMKINA, V.Ya.; SELIVERSTOVA, I.A.; YEGORUSHKINA, N.A.

Disodium salt of magnesium ethylenediaminetetraacetate.  
Met. poluch. khim. reak. i prepar. no. 6:83-84 '62.

Disodium salt of zinc ethylenediaminetetraacetate. (MIRA 17:5)  
Ibid.:84-85

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobu chistykh khimicheskikh veshchestv.

ALIMARIN, I.P.; LASTOVSKIY, R.P.

International Symposium on Analytical Chemistry. Zhur.anal.  
khim. 17 no.6:775-776 S '62. (MIRA 16:1)  
(Chemistry, Analytical--Congresses)

LASTOVSKIY, R.P. (Moscow, Bogorodskiy val.d.3); DYATLOVA, N.M. (Moscow, Bogorodskiy val.d.3); KOLPAKOVA, I.D. (Moscow, Bogorodskiy val.d.3); TEMKINA, V.Ya. (Moscow, Bogorodskiy val.d.3); LAVROVA, O.Yu. (Moscow, Bogorodskiy val.d.3)

New complexones and possibilities of their application in analytical chemistry. Acta chimica Hung 32 no.2:229-233  
'62

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov.

LASTOVSKIY, R.P.; TEMKINA, V.Ya.; SELIVERSTOVA, I.A.

Using the automatic titrimeter for synthesis control. Prom. khim.  
reak. i osóbo chist. veshch. no.1:45-47 '63. (MIRA 17;2)

LASTOVSKIY, R.P.; TEMKINA, V.Ya.; YAROSHENKO, G.F.

N-salicyloylphenylhydroxylamine. Metod.poluch.khim.reak. i prepar.  
no.7:17-19 '63. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobu chistykh khimicheskikh veshchestv.

LASTOVSKIY, R.P.; TEMKINA, V.Ya.; FADEYEVA, I.P.

Dihydroxyethylaminoacetic acid. Metod, poluch, khim, reak, i prepar.  
no. 7:19-21 '63. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobo chistykh khimicheskikh veshchestv.

KREYNGOL'D, S.U.; BOZHEVOL'NOV, Ye.A.; LASTOVSKIY, R.P.; SIDORENKO, V.V.

Determination of iron in water, acids, and salts by a kinetic  
method with the use of stilbene complexon. Zhur. anal. khim.  
18 no.11:1356-1361 N '63. (MIRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh  
reaktivov i osobochistykh khimicheskikh veshchestv, Moskva.

BOZHEVOL'NOV, Ye.A.; KREYNGOL'D, S.U.; LASTOVSKIY, R.P.; SIDORENKO, V.V.

Use of luminescent reagents in the kinetic method of analysis.  
Dokl. AN SSSR 153 no.1:97-100 N '63. (MTRA 17:1)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut khimi-  
cheskikh reaktivov i osobo chistykh khimicheskikh veshchestv.  
Predstavлено akademikom A.P. Vinogradovym.

L 31995-65 EFT(5)/EFT(5)/EFP(3)/T PC-14 MM/GS/NM  
ACCESSION NR: AT5002304 S/0000/64/000/000/0104/0107

AUTHOR: Lazovskiy, R. P., Temkina, V. Ya., Dyatlova, N. M., Kolesnik, Ye. S.,  
Yaroshenko, G. F.

TITLE: New selective polymers

B+1

SOURCE: AN SSSR, Institut fizicheskoy khimii. Issledovaniye svoystv ionoobmennykh  
materialov (Research on the properties of ion-exchange materials). Moscow, Izd-vo  
Nauka, 1964, 104-107

TOPIC TAGS: formaldehyde resin, ion exchange resin, resin selectivity, phenylimino-  
diacetic acid, phenylhydroxylamine

ABSTRACT: In order to collect more experimental data on the relation between structure  
and selectivity, and extend the choice of available selective resins the authors prepared a  
number of new unidentified formaldehyde resins containing various functional groups. The  
resins were prepared by 1) copolymerization of o-aminophenylarsonic acid, p-amino-  
salicylic acid, 5-aminosalicylic acid, salicylaldoxime, and 8-aminoquinoline, and 2, by  
condensation of salicyloylphenylhydroxylamine (a hydroxy-derivative of benzoylphenyl-  
hydroxylamine) and some monomers prepared from 0-hydroxyphenyliminodiacetic acid,  
its para-isomer, and 3-hydroxy-4-carboxyphenyliminodiacetic acid, using reagent

Cord 1/2

L 31995-65

ACCESSION NR: AT5002304

bonding the three-dimensional polymer. The ion-exchange properties of the new polymers were investigated in experiments with Ca, Zn, Ni, Cu and Fe ions at pH from 1 to 6. The results are assessed in general terms. The equilibrium exchange capacity of some polymers is graphed vs pH of the medium. Orig. art. has: 3 figures.

ASSOCIATION: None

SUBMITTED: 06Aug64

ENCL: 00

SUB CODE: OC

NO REF SOV: 008

OTHER: 004

Card 2/2

DYATLOVA, N.M.; BIKHMAN, B.I.; LASTOVSKIY, R.P.

Study of the complex formation of diethylenetriamine-pentaacetic acid with some metals. Zhur. neorg. khim. 10 no.1 (261-243) Ja '65. (Zhur. 18:11)

J. Submitted Aug. 24, 1965.

LASTOVSKII, E.P., doktor khimich.nauk; KOLPAKOVA, I.D., kand.khimich, nauk;  
DYATOLOVA, N.M., kand.khimich.nauk; TEMKINA, V.Ya., kand.khimich.  
nauk

Use of complexons in analytical chemistry. Zhur.VKHO 9 no. 2:  
(MIRA 17:9)  
138-145 '64.

L 61845-65 EWT(m)/EWP(j)/T Pe-4 JAJ/RM

ACCESSION NR: AP5018148

UR/0074/65/034/007/1153/1184

541.49 : 541.571.52

19

16

B1

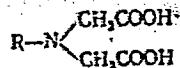
AUTHOR: Dyatlova, N. M.; Lastovskiy, R. P.

TITLE: Structure of complexing agents and their capacity for forming complexes

SOURCE: Uspekhi khimii, v. 34, no. 7, 1965, 1153-1184

TOPIC TAGS: coordination compound, complex, iminodiacetate ligand

ABSTRACT: The field of coordination chemistry of complexing agents of general formula



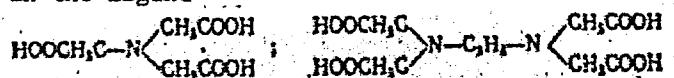
where: R is an aliphatic, aromatic, or alicyclic substituent, is reviewed in order to fill a gap in the literature. General principles of complex formation and stability are discussed. Emphasis is placed on the effect of structure on the coordination capability of the complexing agent. The coordination capability is greatly influenced by the basicity of the nitrogen atom of the iminodiacetate group. Compar-

Card 1/3

L 61845-65

ACCESSION NR: AP5018148

ison of dissociation constants of a series of complexing agents of various metals with iminodiacetate ligands and oxygen-containing R substituents indicates that stability increases with increased basicity of the nitrogen atom. Comparison of the half-wave potentials indicates that introduction of functional groups and hetero-atoms into the iminodiacetate ligand affects the basicity of the nitrogen atom, and is reflected in the ligand's selective behavior. Substitution of one or more of the acetate groups in the ligand



by an alkyl- or arylhydroxy group is reflected in the stability of the complexing agent. In general, substitution of propionate group for acetate group in the iminodiacetate ligand is reflected in a decreased stability of complexing agents with a majority of metals. A copper complexing agent is an exception, probably because of its flat structure. It is concluded that modification of ligand composition is a very useful way to produce stable complexing agents. Orig. art. has: 10 tables, 6 figures.

Card 2/3

L 61845-65

ACCESSION NR: AP5018148

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut khimicheskikh reaktivov  
i osobochistykh khimicheskikh veshchestv (All-Union Scientific Research Institute  
of Chemical Reagents and Especially Pure Chemical Substances)

SUBMITTED: 00

ENCL: 00

SUB CODE: IC, GC

NO REF Sov: 128

OTHER: 037

*dm*  
Card 3/3

ACC NR: AP6033459

SOURCE CODE: UR/0413/66/000/018/0040/0040

INVENTOR: Lastovskiy, R. P.; Kabachnik, M. I.; Medved', T. Ya.;  
Sidorenko, V. V.; Lapshina, N. V.

ORG: none

TITLE: Preparation of N,N-biscarboxymethylethylenediaminebismethylphosphonic acid. Class 12, No. 185911

SOURCE: Izobret prom obraz tov zn, no. 18, 1966, 40

TOPIC TAGS: ~~biscarboxymethylethylenediaminebismethylphosphonic acid preparation, monochloroacetic acid, ethylenediaminebismethylphosphinic acid~~

ABSTRACT: To simplify the process of the preparation of N,N-biscarboxymethylethylenediaminebismethylphosphonic acid from ethylenediaminobis-methylphosphinic acid in the presence of an alkali, the acid is treated with monochloroacetic acid. [W.A. 50]

SUB CODE: 07/ SUBM DATE: 26Jul65

Card 1/1

UDC: 547.419.1.07

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928720014-8

LASTOVSKIY, R.P.; DYATLOVA, N.M.; TEMKINA, V.Ya.; YAROSHENKO, G.F.;  
KOLESNIK, Ye.S.

New polycomplexons. Trudy IREA no.25:57-65 '63.

(MIRA 18:6)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928720014-8"

DYATLOVA, N.M.; YASHUNSKIY, V.G.; SIDORENKO, V.V.; LAVROVA, O.Yu.;  
LASTOVSKIY, R.P.

Synthesis and study of new complexons containing heteroatoms  
in cyclic compounds. Trudy IREA no.25:83-90 '63.

Synthesis and study of new selective ion-exchange resins.  
Ibid.:91-99

(MIRA 18:6)

LASTOVSKIY, R.P.; TEMKINA, V.Ya.; SELIVERSTOVA, I.A.

Synthesis and study of lead ethylenediaminetetraacetate. Trudy  
IREA no.25:100-103 '63. (MIRA 18:6)

L.F.1058 X.Y., Y.M.

BENESHEVICH, I.I., kandidat tekhnicheskikh nauk; BOGIN, N.N., kandidat tekhnicheskikh nauk; BYKOV, Ye.I., inzhener; VLASOV, I.I., kandidat tekhnicheskikh nauk; GRITSEVSKIY, M.Ye., inzhener; GRUBER, L.O., inzhener; GURVICH, V.G., inzhener; DAVYDOV, V.H., inzhener; YER-SHOV, I.M., kandidat tekhnicheskikh nauk; ZASORIN, S.N., kandidat tekhnicheskikh nauk; IVANOV, I.I., kandidat tekhnicheskikh nauk; KRAUKLIS, A.A., inzhener; KROTOV, L.B., inzhener; LAFIN, V.B., inzhener; LASTOVSKIY, V.P., dotsent; LATUNIN, N.I., inzhener; MARKVAHDT, K.G., professor, doktor tekhnicheskikh nauk; MAKHAYLOV, M.I., professor, doktor tekhnicheskikh nauk; NIKANOROV, V.A., inzhener; OSKOLKOV, K.N., inzhener; OKHOSHIN, L.I., inzhener; PARFENOV, K.A., dotsent, kandidat tekhnicheskikh nauk; PERTSOVSKIY, L.M., inzhener; POPOV, I.P., inzhener; PURSHNEV, B.G., inzhener; RATNER, M.P., inzhener; ROSSIIEVSKIY, G.I., dotsent, kandidat tekhnicheskikh nauk; RYKOV, I.I., kandidat tekhnicheskikh nauk; RYABKOV, A.Ya., professor [deceased]; TAGIR, S.A., kandidat tekhnicheskikh nauk; KHAZEN, H.M., professor, doktor tekhnicheskikh nauk; CHERNYSHEV, M.A., doktor tekhnicheskikh nauk; EMIN, L.Ye., professor, doktor tekhnicheskikh nauk; YUGENEV, B.N., dotsent; AKSENOV, I.Ya., dotsent, kandidat tekhnicheskikh nauk; AHNTHANGAL-SKIY, A.S., inzhener; BARTENEV, P.V., professor, doktor tekhnicheskikh nauk; BORGARD, K.A., kandidat tekhnicheskikh nauk; BOROVOY, N.Ye., dotsent, kandidat tekhnicheskikh nauk; BOGDANOV, I.A., inzhener; BOGDANOV, N.K., kandidat tekhnicheskikh nauk; VIENICHENKO, N.G., dotsent, kandidat ekonomicheskikh nauk;

(Continued on next card)

BENESHEVICH, I.I.----(continued) Card 2.

VASILEYEV, V.P.; GONCHAROV, N.G., inzhener; DERIBAS, A.T., inzhener; DOBROSEL'SKIY, K.M., dotsent, kandidat tekhnicheskikh nauk; DLUGACH, B.A., kandidat tekhnicheskikh nauk; YEFIMOV, G.P., kandidat tekhnicheskikh nauk; ZEMBLINOV, S.V., professor, doktor tekhnicheskikh nauk; ZABELLO, H.L., kandidat tekhnicheskikh nauk; IL'IN, K.P., kandidat tekhnicheskikh nauk; KARZYNIKOV, A.D., kandidat tekhnicheskikh nauk; KAPLUN, F.Sh., inzhener; KANSHIN, M.D.; KOCHNEV, F.P., professor, doktor tekhnicheskikh nauk; KOGAN, L.A., kandidat tekhnicheskikh nauk; KUCHURIN, S.F., inzhener; LEVASHOV, A.D., inzhener; MAKSYMICH, B.M., dotsent, kandidat tekhnicheskikh nauk; MARTYNOV, M.S., inzhener; MEDNLE, O.M., inzhener; NIKITIN, V.D., professor, kandidat tekhnicheskikh nauk; PADNYA, V.A., inzhener; PANTELEYEV, P.I., kandidat tekhnicheskikh nauk; PISTROV, A.P., professor, doktor tekhnicheskikh nauk; POVOROZHENKO, V.V., professor, doktor tekhnicheskikh nauk; PISKAREV, I.I., dotsent, kandidat tekhnicheskikh nauk; SERGEYEV, Ye.S., kandidat tekhnicheskikh nauk; SIMONOV, K.S., kandidat tekhnicheskikh nauk; SIMANOVSKIY, M.A., inzhener; SUYAZOV, I.G., inzhener; TALDAYEV, F.Ya., inzhener; TIKHONOV, K.K., kandidat tekhnicheskikh nauk; USHAKOV, N.Ya., inzhener; USPENSKIY, V.K., inzhener; FEL'DMAN, E.D., kandidat tekhnicheskikh nauk; FERAPONTOV, G.V., inzhener; KHOKHLOV, L.P., inzhener; CHERNYCHOV, G.I., professor, doktor tekhnicheskikh nauk; SHAMAYEV, H.F., inzhener; SHAFIRKIN, B.I., inzhener; YAKUSHIN, S.I., inzhener; GRANOVSKIY, P.G., redaktor; TISHCHENKO, A.I., redaktor; ISAYEV, I.P., dotsent, kandidat tekhnicheskikh nauk, redaktor; KLIMOV, V.P., dotsent kandidat tekhnicheskikh

(Continued on next card)

BENESHEVICH, I.I.--- (continued) Card 3.

nauk, redaktor; MARKOV, M.V., inzhener, redaktor; KALININ, V.K.,  
inzhener, redaktor; STEPANOV, V.N., professor, redaktor; SIDOROV, N.I.,  
inzhener, redaktor; GERONIMUS, B.Ye., kandidat tekhnicheskikh nauk,  
redaktor; ROBELL, R.I., otvetstvennyy redaktor

[Technical reference manual for railroad engineers] Tekhnicheskii  
spravochnik zheleznych dorozhnikha. Moskva, Gos. transp.zhel-dor. izd-vo.  
Vol.10. [Electric power supply for railroads] Energosnabzhenie zhelez-  
nykh dorog. Otv.red. toma K.G. Markvardt. 1956. 1080 p. Vol.13.

[Operation of railroads] Eksploatatsiya zheleznykh dorog. Otv. red.  
toma R.I.Robel'. 1956. 739 p. (MLRA 10:2)

1. Chlen-korrespondent Akademii nauk SSSR (for Petrov)  
(Electric railroads) (Railroads--Management)

*ca*

2

Investigation of the relation  $P-T$  for the saturated vapor of organic thermal conductors. A. M. Lashovtsev, Khim. Mashinostroenie 6, No. 3, 10-22 (1937); Chem. Zent., 1938, I, 1105. Sat. pressures were determined for PhNH<sub>2</sub> (200-370°), naphthalene (220-370°), PhNO<sub>2</sub> (200-400°), PhO<sub>2</sub> (250-400°) and Ph<sub>2</sub> (250-400°). For the vapor pressure equation  $\log P = A + B/T + C$  the following constns. were obtained: For PhNH<sub>2</sub>,  $A = 4.010$ ,  $B = 1904$ ; for naphthalene,  $A = 4.394$ ,  $B = 1062.4$ ; for Ph<sub>2</sub>NH,  $A = 4.683$ ,  $B = 2430.7$ ; for Ph<sub>2</sub>,  $A = 4.576$ ,  $B = 2213.5$ ; for PhO<sub>2</sub>,  $A = 4.4573$ ,  $B = 2168.3$ . Only in the case of PhNH<sub>2</sub> does the vapor pressure reach a value of 14-18 atm. in the range chiefly concerned (320-40°). It was lower for all other compds. investigated.  
M. G. Moore

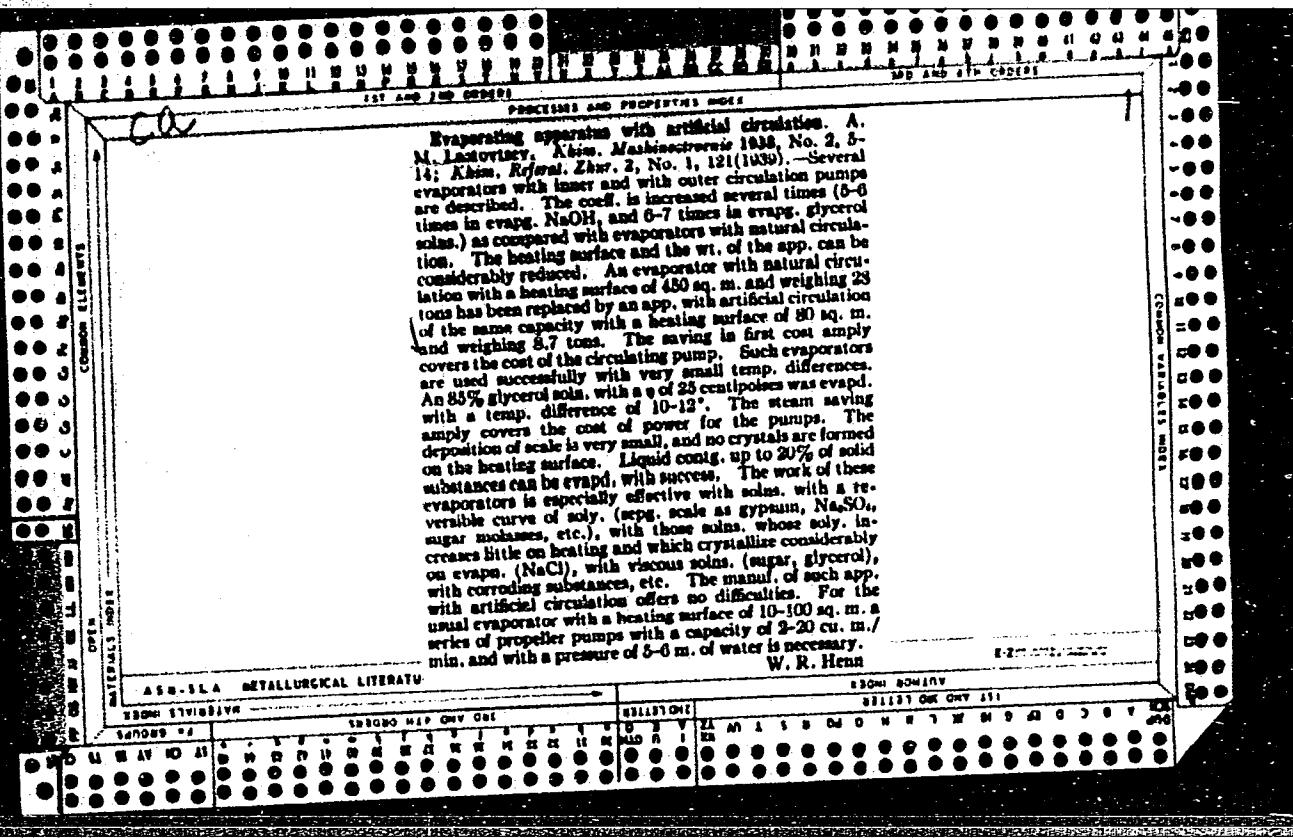
## APPENDIX A METALLURGICAL LITERATURE CLASSIFICATION

*Ca*

2

Analytical method for calculating the drying process.  
V. I. Asnin and A. M. Lastovtsev, *Khim. Mashinost.*,  
1936, No. 4, 23-7 (1937); *Chem. Zentr.*, 1938, I, 1173.  
The following equations are developed for calcg. the mois-  
ture content of the drying air upon entrance ( $d_0$ ) and exit  
( $d_1$ ) from the dryer, using values for the temp. of the air  
as it enters ( $t_1$ ) and as it leaves ( $t_2$ ), the heat content of the  
water vapor ( $t_1'$ ) the latter temp., ( $t_2'$ ) and the heat loss  $\Delta$  in  
Cal. per hr.:  $d_0 = [(240 + 0.47 d_0)(t_1 - t_1') + (t_1' - \Delta)] /$   
 $[d_1 + d_0(t_1' - \Delta) + 210(t_1 - t_1')] / [0.47(t_1 - t_1') +$   
 $(t_1' - \Delta)]$ . The analytical method based on these equa-  
tions has the advantages of greater accuracy and simplicity  
over the graphical method. W. A. Moore

A50-51A - RETAINING LITERATURE CLASSIFICATION



LASTOVITSEV, A.M.

Chemical Abst.  
Vol. 48 No. 9  
May 10, 1954  
General and Physical Chemistry

✓ Estimation of dispersion of atomized liquids. A. M. Lastovitsev. Trudy Moskov. Inst. Khim. Mashinostroyeniya 1956, No. 2(Whole No. 10), 3-18.—A review of properties and quant. evaluation of dispersions. Equations are given for count av. diam., surface av. diam., and vol. av. diam., as well as a statistical analysis of sample variance as dependent on population characteristics and sample size. Some results are reported for pressure sprays and rotating spray heads. H. J. Kandiner

(B)  
Chen

11-9-54  
milk

LASTOVSEV, ALEKSANDR MIKHAYLOVICH

LASTOTSEV, Aleksandr Mikhaylovich, Academic degree of Doctor of Technical Sciences, based on his defense, 21 April 1955, in the Council of the Moscow Inst of Chemical Building, of his dissertation entitles: "Theory and calculation of revolving pulverizers."

For the Academic Degree of Doctor of Sciences.

Byulleten' Ministerstva Vysshego Obrazovaniya SSSR, List No.8, 14 April 1955  
Decision of Higher Certification Commission Concerning Academic Degrees and Titles.

JPRS 512

SOV/124-58-2-1841

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 49 (USSR)

AUTHOR: Lastovtsev, A. M.

TITLE: The Hydrodynamic Calculation of Spinning Sprinklers (Gidrodinamicheskiy raschet vrashchayushchikhsya raspyliteley)

PERIODICAL: Tr. Mosk. in-ta khim. mashinostr., 1957, Vol 11, pp 41-70

ABSTRACT: An examination of the motion of the liquid in spinning sprinklers with ducts of different direction, cross section, and profile. The investigation is conducted under the following assumptions: a) The friction between the free surface of the liquid in a duct and the air is disregarded; b) the cross-flow velocity components are disregarded; c) the motion of the liquid is not due to any pressure head but only to the effect of centrifugal inertia forces. A differential equation is obtained for the turbulent flow of the liquid in the sprinkler. Calculation formulas are derived for the determination of the relative velocity of the liquid at the edge of the sprinkler. It is experimentally established that the formulas obtained are applicable over a wide range of changes of angular velocities, sprinkler dimensions, and duct loads.

K. K. Vasilevskiy

Card 1/1

SOV/124-58-2-1842

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 49 (USSR)

AUTHOR: Lastovtsev, A. M.

TITLE: The Delivery Capacity of Spinning Sprinklers (Propusknaya sposobnost' vrashchayushchikhsya raspyliteley)

PERIODICAL: Tr. Mosk. in-ta khim. mashinostr., 1957, Vol 11, pp 71-82

ABSTRACT: An experimental determination of the dependence of the maximum volumetric delivery capacity of a sprinkler (atomizer)  $Q_n$  on its angular velocity, aperture cross-sectional area, number of apertures, the radius of the inlet openings of the receiver chamber, and the radius of the receiver chamber in the plane of the liquid-duct openings. A verification is made also of the effect on  $Q_n$  of the length of the sprinkler ducts, the design of the receiver chamber, and the physical properties of the liquid. Sprinklers of 19 standard sizes were tested. A formula is obtained for the calculation of the maximum delivery capacity of spinning sprinklers.

K. K. Vasilevskiy

Card 1/1

LASTOVITSEV, A.M., doktor tekhn.nauk, prof.; KHVAL'NOV, A.M., inzh.

Intensification of the mixing of loose materials. Khim.mash. no.1:  
22-26 Ja '59. (MIRA 12:7)  
(Mixing machinery)

SHORIN, S.N., doktor tekhn. nauk, prof., red.; SHCHEPKIN, S.I., zasl. deyatel' nauki i tekhniki, prof., svv. red.; LASTOVTSEV, A.M., prof. red.; KARAVAYEV, N.M., prof., red.; KOKOREV, D.T., prof., red.; PETROKAS, L.V., prof., red.; RESHCHIKOV, P.M., dots., red.; SOKOLOV, S.N., prof., red.; SOKOLOV, S.I., prof.. red.; KHODZHAYEV, A.M., dots., red.; LEBEDEV, K.I., kand. tekhn. nauk, dots. red.; TAIROVA, A.L., red. izd-va; UVAROVA, A.F., tekhn. red.

[Investigation and calculation of heat engineering and power generating processes] Issledovaniia i raschety teploenergeticheskikh i energokhimicheskikh protsessov; sbornik statei. Pod red. S.N.Shorina. Moscow, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 137 p.  
(MIRA 14:10)

1. Moscow. Institut khimicheskogo mashinostroyeniya.  
(Heat engineering) (Power engineering)

SHIPUNOVA, N.S.; LASTOVTSEV, A.M.

Investigating the operative efficiency of hydrocyclones by the thickened and clarified products. Sakh.prom. 37 no.6:66-72 Je '63. (MIRA 16:5)

1. TSentral'nyy nauchno-issledovatel'skiy institut krakhmalo-patochnoy promyshlennosti i Moskovskiy institut khimicheskogo mashinostroyeniya. (Separators (Machines)--Testing)

LASTOVTSYEV, A.M.; KHVAL'NOV, A.M.; MAKAROV, Yu.I.

Process of mixing of free-flowing materials in a fluidized bed obtained by the mechanical method. Khim.prom. no.11:815-818 N '62.  
(Fluidization) (MIRA 16:2)

LASTOVTSYEV, A.M.; POPOV, N.P.

Power required for the mixing of fluidized free-flowing media.  
Khim.prom. no.11:820-822 '63.  
(MIRA 17:4)

~~LASTOVITSEV, A.M., dr. tekhn. nauk, prof.; KHVAL'NOV, A.M., kand. tekhn.  
nauk; MAKAROV, Yu.I., kand. tekhn. nauk~~

Blenders for free flowing materials. Khim. mashinostr. no.1:  
7-9 Ja'63 (MIRA 17:7)

AKOPYAN, L.A.; VARYGIN, N.N.; GUTAREV, V.V.; ZYKOV, D.D.; KARAVAYEV, N.M.;  
KONDUKOV, N.B.; LASTOVITSEV, A.M.; MAKAROV, Yu.I.; MAZUROV, D.Ya.;  
MARTYUSHIN, I.G.; MASLOVSKIY, M.F.; NIKOLAYEV, P.I.; PLANOVSKIY,  
A.N.; RYCHKOV, A.I. [deceased]; CHEKHOV, O.S.; KHVAL'NOV, A.M.;  
SHAKHOVA, N.A.

Theory and practice of heterogeneous processes in a fluidized  
bed. Trudy MIKHM 26:3-22 '64. (MIRA 18:5)

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928720014-8

LASTOVITSEV, A.M.

Statistic dispersion characteristics of the spray produced by a  
rotating atomizer. Trudy MIKHM 26:78-99 '64.

(MIRA 18:5)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928720014-8"

LASTOVVTSEV, A.M.; MOISEYENKO, I.M.

Determining the operative capacity of the sprinkling disks of  
mechanical horizontal absorbers. Trudy MIKHM 26:100-112 '64.  
(MIRA 18:5)

LASTOVVTSEV, A.M.; DERYABIN, N.I.

Experimental determining of the dimensions of the torches of  
rotating atomizers in quiescent and moving gases. Trudy MIKHM  
26:113-130 '64.  
(MIRA 18:5)

LOMAKIN, B.M.; LASTOVTSEV, A.M.

Studying the gravity mixer for free-flowing materials. Trudy  
MIKHM 26:192-199 '64. (MIRA 18:5)

L 13289-66 EWT(m)/EWP(j)/T RM  
ACC NR: AP6000322 (A)

SOURCE CODE: UR/0286/65/000/021/0011/0011

INVENTOR: Lastovtsev, A. M.; Mamedov, U. A.; Kharakoz, V. V.

29  
B

ORG: none

TITLE: A polymerizer. Class 12, No. 175924 [announced by the Moscow Institute of Chemical Machine Building (Moskovskiy institut khimicheskogo mashinostroyeniya)]

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 11

TOPIC TAGS: polymerization, chemical engineering

ABSTRACT: This Author's Certificate introduces a polymerizer which consists of a housing with a cooling jacket, pipes for inlet and outlet of the polymerization product and a rotating cooled mixer mounted inside the housing. Heat exchange during the polymerization process is intensified by making the mixer in the form of a hollow cylinder whose interior surface is a truncated cone.

SUB CGDE: 07/ SUBM DATE: 30Jul64/ ORIG REF: 000/ OTH REF: 000

Card 1/2

UDC: 678.053.3

L 13289-66

ACC NR: AP6000322

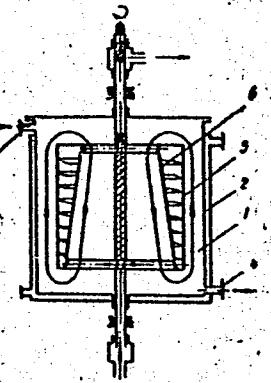


Fig. 1. 1 - housing; 2 - cooling jacket; 3 and 4 - pipes for inlet and outlet of the polymerization product; 5 - rotating cooled mixer; 6 - inside (tapered) surface of the mixer.

jw  
Card 2/2

GAZANCHIYANTS, M.G.; LASTOVITSEV, A.M.; MARTYUSHIN, I.G.; PLANOVSKIY, A.N.; KHARAKOZ, V.V.; SHNAYDER, Ye.Ye.

Apparatus for the processing of finely dispersed vegetable materials.  
Gidroliz. i lesokhim. prom. 18 no.6:5-6 '65. (MIRA 18:9)

1. Moskovskiy institut khimicheskogo mashinostroyeniya (for all except Shnayder). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut biosinteza belkovykh veshchestv (for Shnayder).

LASZKA, Boleslaw; PIOTROWSKI, Romuald

Effect of antrotomy in infancy on the development of pneumatization.  
Otolaryng. Pol. 19 no.3:341-344 '65.

1. Z Oddzialu Laryngologicznego Wojewodzkiego Szpitala im. M. Kopernika  
(Ordynator: dr. med. B. Laszka) w Olsztynie i z Pracowni Radiologicznej  
Wojewodzkiego Szpitala Dzieciecego w Olsztynie (Kierownik: lek. med.  
R. Piotrowski).

NEYMAN, Bogdan, doc. mgr inz.; JARZABEK, Lidia, mgr inz.; LASTOWICZ, Teresa,  
mgr inz.

Physical and mechanical properties of rocks with consideration of  
the hydrogeological conditions of the iron ore deposits in the Cze-  
stochowa region. Glow inst gorn prace no. 343/351:71-83 '64.

1. Central Mining Institute, Katowice.

LASTOWIECKA, J.

P O L .

["Anodic Behavior of Copper in Hydrochloric and Nitric Acid Solutions. J. Kowalewski and B. Lastowicka (Bull. Acad. Polon. Sci., 1954, jun, 2, (3), 193-199). In English]. The relation between the e.d. at a Cu anode and cell voltage is reported graphically for aq. HCl and HNO<sub>3</sub>, 0.01, 1, 3, and 5M.—J. L.

LASTOWIECKA, B.

POL.

\*Anodic Behaviour of Copper in Solutions of  $\text{NaCl}$ ,  $\text{NaNO}_3$ , and  $\text{NaOH}$ . J. Kamecki and B. Lastowiecka (*Bull. Acad. Polon. Sci.*, 1934, [iii], 8, (3), 137-143).—[in English]. In  $\text{NaCl}$  (1 and  $3M$ ), at low p.d.  $\text{CuCl}$  is formed at the anode; with increasing p.d.  $\text{Cu}_2\text{O}$  or  $\text{CuOH}$  is formed; at ~10 V. the anode becomes passive and O is given off. In  $\text{NaNO}_3$  (0.01, 1, and  $3M$ ) the anode dissolves smoothly, without passivation;  $\text{Cu}(\text{NO}_3)_2$  and  $\text{Cu}(\text{OH})_2$  are formed. In  $\text{NaOH}$  (1, 3, and  $5M$ ) passivation of the anode occurs between 1.4 and 1.8 V.—J. L.

RE 601

LASTOWIECKI, Henryk (Bytom)

"Controlling teams of three" and training of foremen; activities of the Provincial Meat Industry Commission in Bytom. Gosp miesna 14 no.4:20-21 Ap '62.

RADOMANSKI, Tadeusz; LANGWINSKI, Romuald; SZURSKA, Halina; ZEBROWSKA, Iwona;  
SZURSKA, Grazyna; WNUK, Urszula; LASTOWSKI, Zbigniew

Studies on the properties of glycerol diguaiacol ether. Ann. Univ.,  
Lublin sect.D 16:215-228 '61.

l. Z Katedry i Zakladu Farmakologii Doswiadczonej Wydzialu Lekarskiego  
Akademii Medycznej w Lublinie Kierownik: prof. dr med. i dr farm.  
Jozef Jeske.

(GUAIACOL GLYCERYL ETHER) (CENTRAL NERVOUS SYSTEM)

BORKOWSKI, Boguslaw; JESKE, Jozef; LASTOWSKI, Zbigniew; PRZEGALINSKI,  
Edmund

Spermatocidal activity of tannin and of saponins. Acta pol.  
pharm. 20 no.1:91-92 '63.  
(TANNINS) (SAPONINS) (SPERMATOZOA)

LASTROV, V.G., FARAPONOVA, G.P.

Radiation errors of a platinum resistance thermometer. Trudy TSAO  
no.16:18-20 '56. (MLRA 9:11)  
(Atmospheric temperature) (Thermometers)

C. A.

15A

Relation of structure to fungicidality of nitrophenols.  
M. Polster and Z. Lalgóvá. *Casopis Českého Lékařnického*  
62, 140-2(1910) (in Czech, with Russian, English, and  
French summaries).—Differences in the fungicidal effectiveness  
of  $\alpha$ - and  $\rho$ -derivs. of mononitrophenols correlate with  
the different rate of reduction of these compds. The rise in  
fungicidality from  $\alpha$ - to  $p$ -nitrophenols is proportional to the  
decreasing rate of their reductivity. Oldrich Sebek

LASTUŠKA, Z.

Journal of Applied Chemistry  
May 1954  
Chemical Engineering and  
Electrochemical.

Swelling pressure of lignocellulose cell walls. Z. Laštůvka and V. Rypáček (Pub. Fac. Sci. Univ. Masaryk, 1953, No. 346, 119-140).—Swelling pressure of fir-wood (*Abies alba* Mill.) cell walls is studied in relation to the hygroscopic moisture content of the wood. Cubes of wood of definite moisture content are placed in  $\text{CaCl}_2$  and glucose solutions of different osmotic pressure. The osmotic pressure of the solution in which no volume changes of the wood occur is the measure of the swelling pressure of the cell walls. It is found that the swelling pressure varies inversely as the moisture content of 3.5% and falling to 0 at the max. hygroscopic moisture content of 32%.  
S. K. LACHOWICZ.

LASTUVKA, Z.

Effect of the extract of the root secretion of couch grass on the germination of  
common wheat and common rye. p.103  
CESKOSLOVENSKA BIOLOGIE, Vol. 4, No. 3, Feb. 1955

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4, No. 9, Sept. 1955 Uncl.

LASTUVKA, Z.

Effect of couch grass on the growth of wheat and rye. p. 165.  
CESKOSLOVENSKA BIOLOGIE, Praha, Vol. 4, no. 3, Mar. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,  
Uncl.

LASTUVKA, Z.

Effect of couch grass on the glycidol and nitrogen metabolism  
of wheat and rye. p. 422.

CESKOSLOVENSKA BIOLOGIE. (Ceskoslovenska akademie ved.  
Biologicky ustav) Praha.

SOURCE: East European Accessions List (EEAL) Library  
of Congress. Vol. 5, No. 1, January 1956,

Vol. 4. No. 7, July 1955.

LASTUVKA, Z.

"Growth and metabolism in wheat and rye among mixed crops."  
p. 141 (Ceskoslovenska Biologie, Vol. 7, no. 2, 1958,  
Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, no. 9,  
September 1958

LASTUVKA, Z., BENSOVA, M.: PILHAK, F.

Chlorophyll content and the activity of some osidation enzymes in whaat  
and rye grown in a mixed culture. p. 332.

Praha, Czechoslovakia. Vol. 7, no. 5, Sept. 1958.

Monthly List of East European Accessions (EEAI), LC. Vol. 9, no. 2.  
Feb. 1960.

Uncol.

LASTUVKA, Z.: MINAR, J

"Effect of essential oils from quitch grass on some lower animals."

CESKOSLOVENSKA BIOLOGIE, Praha, Czechoslovakia, Vol. 7, no. 6, Nov. 1958

Monthly list of East Europe Accessions (EEAI), LC, Vol. 8, No. 6, Sept 59  
Uncles

*LASUKOV, R.M.*  
KONDRAT'YEVA, N.P.; PODLESSKAYA, Ye.M.; NOVIKOVA, V.F.; LASUKOV, A.N.;  
MURAV'YEVA, M.M.; PRINTS, G.Yu.; KOZHEVNIKOV, F.P.; PIROGOV, V.I.,  
red.; POLYAKOVA, K.A., tekhn.red.

[Economy of Belgorod Province; a statistical manual] Narodnoe  
khoziaistvo Belgorodskoi oblasti; statisticheskii sbornik. Orel,  
(MIRA 11:4)  
Gosstatizdat, 1957. 165 p.

1. Belgorodskaya oblast'. Statisticheskoye upravleniye. 2. Statisti-  
cheskoye upravleniye Belgorodskoy oblasti (for all, except Pirogov,  
Polyakova) 3. Nachal'nik Statisticheskogo upravleniya Belgorodskoy  
oblasti (for Pirogov)  
(Belgorod Province--Economic conditions)

LASUKOV, N.S.

Increase the quantity and improve the quality of sheep wool collected in leather plants. Leg.prom. 15[i.e. 16] no.6;16-18 Je '56.  
(MLRA 9:8)

1. Starshiy nauchnyy sotrudnik TSentral'nogo nauchno-issledovatel'skiy institut sherstyanoy promyshlennosti.  
(Leather industry--By-products) (Wool)

LASUKOVA, T. P.

"The Dynamics of Nitrogen in Irrigated Soils." Cand Agr Sci, All-Union Sci Res Inst of Fertilizers, Agricultural Engineering and Soil Science; All-Union Order of Lenin Academy of Agricultural Sciences imeni B. I. Lenin, Moscow, 1955.  
(KL No 12, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations  
Defended at USSR Higher Educational Institutions (15)

LASUNOV, N.A., otv.red.; KHIDNEVA, I.V., red.izd-va; SHKLYAR, S.,  
tekhn.red.

[Rules for the installation and safe operation of water-heating  
boilers and steam boilers with pressure not exceeding 0.7  
atmospheres] Pravila ustroistva i bezopasnoi ekspluatatsii  
vodogreinykh kotlov i parovykh kotlov s davleniem ne svysha  
0,7 ati. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu  
delu, 1960. 38 p. (MIRA 14:3)

I. Russia (1917- R.S.F.S.R.) Komitet po nadzoru za bezopasnym  
vedeniyem rabot v promyshlennosti i gornomu nadzoru.  
(Boilers)

LASUNOV, N.A., inzh.

Prevent steam boiler accidents caused by low water. Bezop. truda  
v prom. 4 no. 5:18-19 My '60. (MIRA 14:5)  
(Boilers—Laws and regulations)

LASUNOV, N.A., inzh.

Stand for loading test of mooring ropes and chains. Bezop. truda  
v prom. 4 no.10:34 O '60. (MIRA 13:11)  
(Testing machines)

LASUNOV, N.A., inzh.

Safety measures in loading and unloading of lumber. Bezop. trudia  
v prom. 4 no.12:20-21 D '60. (MIRA 14:1)  
(Lumber—Transportation—Safety measures)

LASUNOV, N.A., inzh.

Prevent accidents with water heaters and steam boilers with a pressure up to 0.7. at. Bezop.truda v prom. 5 no.t:9-10 Je '61. (MIRA 14:6)  
(Boilers--Safety measures)

KONDRASHOV, A.M., inzh.; LASUNOV, N.A., inzh.; SIGALOV, L.B., otv.  
red.; VOLKOVA, V.A., red.izd-va; PRONINA, N.D., tekhn.  
red.

[Accidents and accident prevention in areas of boiler inspection]  
Avarii na ob"ektakh kotlonadzora i mery po ikh predu-  
prezhdeniu; informatsionnoe pis'mo. Moskva, Gosgortekhizdat,  
1962. 87 p. (MIRA 16:4)

1. Russia (1917- R.S.F.S.R.)Gosudarstvennyy komitet po nadzoru  
za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru.  
(Boiler inspection)

LASUNOV, N.A., inzh.

Prevent accidents in boiler rooms during fuel supply and ash removal.  
Bezop. truda v prom. 6 no. 7:7-8 Jl '62. (MIRA 15:7)

1. Gosudarstvennyy komitet pri Sovete Ministrov RSFSR po nadzoru  
za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.  
(Boilers—Safety measures)

LASUNOV, N.A., inzh.

Accidents with gas heated DKV steam boilers. Bezop. truda v prom 6  
no.11:17-18 N '62. (MIRA 16:2)

1. Gosudarstvennyy komitet pri Sovete Ministrov RSFSR po nadzoru  
za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.  
(Boilers)

LASUNOV, N.A., inzh.

Increasing the training and certification of personnel operating  
and servicing boiler installations. Bezop. truda v prom. 7 no.12:  
11-12 D '63. (MIRA 18:7)

1. Gosudarstvenny komitet pri Sovete Ministrov RSFSR po nadzoru  
za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.

LASUNOV, N.A., qtv. red.; VOLKOVA, V.A., red.izd-va; MINSKER, L.I.,  
tekhn. red.

[Safety regulations for the installation and operation of  
steam boilers] Pravila ustroistva i bezopasnoi ekspluatatsii  
parovykh kotlov. Obiazatel'ny dlia vsekh ministerstv i vedomstv.  
Izd.5. V nastoiashchee izd. Pravil vneseny izmeneniiia i dop.  
priiatye Gosgortekhnadzorom RSFSR. Moskva, Gosgortekhnadzor,  
(MIRA 16:3)  
1963. 86 p.

1. Russia (1923- U.S.S.R.) Komitet po nadzoru za bezopasnym vede-  
niyem rabot v promyshlennosti i gornomu nadzoru.  
(Boilers--Safety regulations)

LASUNOV, N.A., inzh.

Organizational causes of accidents with equipment subjected to  
boiler inspection. Bezop.truda v prom. 7 no.3:17-18 Mr '63.  
(MIRA 16:3)

1. Gosudarstvennyy komitet pri Sovete Ministrov RSFSR po nadzoru  
za bezopasnym vedeniyem rabot v promyshlennosti i gornomu  
nadzoru.

(Industrial accidents)

LASUNOV, N.A., citv. red.; MOROZOVA, M.P., red.; GUTOROVA, V.G.,  
red.; ZHILYAYEVA, A.V., red.; KONDRAŠHOVA, A.M., red.;  
OKOROKOVA, A.A., red.; USHAKOVA, P.N., red.

[Regulations for the design, installation and safe opera-  
tion of elevators. Compulsory for all ministries and  
services] Pravila ustroistva i bezopasnoi ekspluatatsii  
liftov. Obiazatel'nyi dlia vsekh ministerstv i vedomstv.  
Moskva, Nedra, 1965. 73 p. (MIRA 18:8)

1. Russia (1923.. U.S.S.R.) Komitet po nadzoru za bezopas-  
nym vedeniyem rabot v promyshlennosti i gornomu nadzoru.

VARFOLOMEYEV, V.V., inzh.; KONDRASHOV, A.M., inzh.; LASUNOV, N.A.,  
inzh.; SEN'KIN, Ye.G., inzh.; SIGALOV, L.B., Inzh.

[Failures in boiler inspection systems and measures for preventing them; informational letter] Avari na ob"ektakh kotel'noj nadzora i mery po ikh preduprezhdeniju; informatsionnoe  
pis'mo. Izd.2. Moskva, Nedra, 1965. 173 p.

(MIRA 18:6)

1. Russia (1917- R.S.F.S.R.) Gosudarstvennyy komitet po  
nadzoru za bezopasnym vedeniem rabot v promyshlennosti i gornomu nadzoru.

LASURASHVILI, M.D.

Lacquer flow coater for panel finishing. Der.prom. 9 no.4:19-20  
Ap '60. (MIRA 13:9)  
(Painting, Industrial--Equipment and supplies)

LASURKIN, Y. S., and MOKULSKIY, M. A.

"Relaxation at low temperatures and mechanical losses in High Polymers,"  
a paper presented at the 9th Congress on the Chemistry and Physics of High  
Polymers, 28 Jan-2 Feb 57, Moscow.

B-3,084,395